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Phoneme classification using Markov models

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Abstract
An approach for supporting large vocabulary in speech recognition is to use broad phone
the search to a subset of the dictionary. In this paper, we investigate the problem of defini
classification for a given speech decoder, so that these broad phonetic classes are recog
as possible from the speech signal. More precisely, given Hidden Markov Models of pho
similarity measure of the phonetic machines, and use a standard classification algorithm to
classification. Three measures are proposed, and compared with manual classifications.

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